



UNIVERSITY COLLEGE OF ENGINEERING KAKINADA, (AUTONOMOUS)  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
Pithapuram Road, Kakinada-533003

Phone: Off: 0884-2300823

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**Tender Notice No. JNTUK-UCEK/ Equipment/2017**

**Date: 04-07-2017**

**TENDER SCHEDULE**

**GENERAL CONDITIONS:**

1. Please quote your lowest rates for each item described. The quotation should reach this office **on or before 17/07/2017 by 03:00 P.M.** Sealed covers should be submitted for the items super scribing as **"Tender Notice No.", "Description of Item" & "Item Number(s)"**. The sealed covers should be sent by the Registered Post (or) to be dropped in the sealed box provided in the office of the Principal. The tender will be **opened on 17/07/2017 at 04:00 P.M.** by the undersigned/his nominee in the presence of the committee members and available tenderers or their representatives.
2. Separate tender forms should be submitted for each item as per the specifications mentioning with the additional features if any.
3. **E.M.D:** The tender documents should be submitted along with earnest money deposit **Rs.5,000/-** in the form of Demand Draft in favor of **"The Principal, JNTUK, University College of Engineering, Kakinada"** to be payable at State Bank of India, JNTU Campus Branch, Kakinada. The Demand Draft pertaining to E.M.D. of unsuccessful party will be returned.
4. **PRICES:** The price should be F.O.R. destination inclusive of taxes, packing & forwarding charges, freight and delivery charges. Items on rate contract, if any together with the terms and conditions may please be furnished.
5. **PAYMENT:** 100% payment will be made within a reasonable time only after the receipt of all items in good condition and installation as per given specifications and after testing for satisfactory working and on receipt of the company's invoice with all Supporting vouchers such as copy of A.P. G S T or VAT Registration certificate etc. **No advance will be paid in any case either in part or in full.**
6. **ACCEPTANCE:** It is not binding on the university/ institution to accept the lowest of the tenders. The university/ institution reserves the right to place orders for individual items with different tenderers.
7. **SPECIFICATIONS:** Full specifications along with the description and make should be mentioned in the tender.
8. **Warranty/Guaranty:** Warranty/Guaranty period should be mentioned by the tenderer.

9. **DELIVERY:** The period of delivery at destination from date of placing orders is **FOUR WEEKS**.
10. **VALIDITY:** The quotations should be valid for at least 90 days.
11. The Institution reserves the right to cancel the tender without assigning any reason.
12. The tenderer should produce copy of Service tax certificate and PAN card.
13. Those who purchased tender schedule officially by paying **Rs. 500/-** in the form of Demand Draft drawn in favor of Principal, JNTUK University College of Engineering, payable at Kakinada are only eligible to participate in the tender. Those who have downloaded the tender schedule from the JNTUK website ([www.jntuk.edu.in](http://www.jntuk.edu.in)) should submit a separate DD for **Rs.500/-** along with the quotation.
14. This Institution being Government educational institution is exempted from payment of Central/State Excise Duty.
15. Since the college is Government institution whatever conditions are applicable to any Government institute shall be applicable even if not specified.
16. Any tender that is received after due date will not be accepted. The college is not responsible for any postal delay.
17. List of Major Customers should be provided.
18. Either Colour Letter head or white paper with round seal and signature is compulsory while quoting the tender price.
19. Wherever possible, buyback procedure should be adopted.



  
**PRINCIPAL**

**Dr. G.V.R. PRASADA RAJU**  
**PRINCIPAL**  
University College of Engineering, Kakinada  
Jawahar Lal Nehru Technological University Kakinada  
Kakinada-533 003



**FORMAT OF QUOTATION\***

**(To be filled in concerned firm letterhead)**

To  
The Principal,  
University College of Engineering Kakinada (A),  
JNT University Kakinada,  
Kakinada.

Date:

S.No	Description of goods (with full Specifications)	Qty	Unit	Quoted Unit rate in Rs.	Total Amount	
					In figures	In words

Gross Total cost : `

We agree to supply the above goods in accordance with the technical specifications for the total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warranty / guarantee of months shall apply to the offered goods`

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name : \_\_\_\_\_

Mobile No. \_\_\_\_\_

- Applicable while the bids are being invited for more than one item and would be evaluated for all the items together. Modify where evaluation would be made for each item separately.

**Item No: 1**  
**Training and Placement Office**  
**Specifications**  
**for**  
**1.5 Ton Air Conditioners**

S.No.		Quantity
1.	Supply, Installation, Testing and Commissioning of 1.5 TR 5 Star split AC unit with hyper tropical compressor using R410A refrigerant and capable of delivering 21600 BTU/hr with high wall mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units and 4 mts of 3 core copper flexible cable between indoor and outdoor units including built-in stabilizer (Voltage range 160-264 volts) and cordless remote control. Additional accessories: Supply and fixing of 5.0 KVA Stabilizer and AC Stand.	6 No's

**Item No: 2**  
**Training and Placement Office**  
**Specifications**  
**for**  
**2 Ton Air Conditioner**

S.No.	Description of the Item	Quantity
1.	Supply, Installation, Testing and Commissioning of 2.0 TR 5 Star split AC unit capable of delivering 21600 BTU/hr and above with operating on refrigerant R-22 / R- 410A with high wall mounted indoor unit and outdoor condensing unit Hermetically sealed compressor suitable for operation on 230V, 50Hz, 1Phase AC supply capable of performing cooling dehumidifying air circulating and filtering with cooling and condensing units and 4 mts of 3 core copper flexible cable between indoor and outdoor units including built-in stabilizer (Voltage range 160-264 volts) and cordless remote control etc complete. Additional accessories: Supply and fixing of 5.0 KVA Stabilizer and AC Stand.	1 No

**Item No: 3**  
**Training and Placement Office**  
**Specifications**  
**for**  
**LCD-Projector**

<b>Brightness</b>	2800 ANSI Lumens
<b>Technology</b>	3 LCD Technology
<b>Projection Type</b>	Short Throw
<b>Projection Size</b>	53 Inches-116 Inches
<b>Color Light Output and White Light Output</b>	2800
<b>Contrast</b>	16000:1
<b>Resolution</b>	1280×800, 16:10
<b>Input Connectivity</b>	VGA, HDMI, RS-232, RCA
<b>Wired LAN</b>	Standard
<b>Inbuilt Speakers</b>	16W
<b>Lamp Hours</b>	6000 lamphour10,000 hr. ECO mode
<b>USB Connectivity</b>	Type A & Type B 2.0
<b>Noise Level</b>	28 d Blow Noise
<b>Weight</b>	3.7 Kgs or lesser
<b>Wi Fi</b>	Yes
<b>Warranty</b>	3 Years
<b>OEM</b>	Authorization Letter to be Enclosed



**1. Technical specifications of 250 LPH RO plant with Membrane auto flushing and auto on off controls**

**Raw Water Pump**

Capacity	<b>One</b> 1 m <sup>3</sup> /hr
Type	Monoblock centrifugal pump
MOC	CI
Drive	0.5 HP
Pressure	3 kg/cm <sup>2</sup>
Make	CRI/equivalent

**Dual Media filter**

Size	<b>One</b> 12" Dia. x 48"0 mm HOS
MOC	FRP
Multiport valve	20 NB
pipeline	25 NB
Media	Pebbles, Silex , Fine sand., Carbon
Make	Aventura/Equivalent

**Anti scalant dosing**

Flow rate	<b>One</b> 0 - 4 lph
Pump type	Diaphragm type
Operating pressure	4 kg/cm <sup>2</sup>
Volume and MOC of dosing tank	50 liters, HDPE
Make	Milton Roy-Asia LMI

**Micron cartridge filter**

Size	<b>Two</b> 4"x 20" length
MOC: Housing/filter	PVC / PP
Type of filter	Spun wound PP 10 μ

**High-pressure pump**

Capacity	<b>One</b> 0.8 m <sup>3</sup> /hr
Pressure	9-12 kg/cm <sup>2</sup>
Type	Multistage vertical centrifugal
Make	CRI/eq.

**RO system**

Size. of pressure tubes	<b>One</b> 4" x 40"
No. of pressure tubes	One
MOC of pressure tubes	SS 304, 16 kg/cm <sup>2</sup>
Size of membranes	4" x 40"
No. of membranes	One
Make	Toray/GE/ Eq.
Low pressure Pipe line and fittings	UPVC,
High pressure Pipe line and fittings	CPVC
RO skid	SS 304

**UV sterilizer**

Capacity	<b>One</b> 250 m <sup>3</sup> /hr
Make	Alfa

**Electrical and Instrumentation**

Panel board-LED display, TDS meters, auto on /off.	One
Pressure gauges	Two
Rotameters- UKL	Two
Flow sensors- FLOWTEC	One
SV- U flow	One
Level sensor-	One
LPS and HPS- Danfos	TWO

**Raw water tank**

Capacity	<b>One</b> 500 lts
MOC	HDPE

**Pure water tank**

Capacity	<b>One</b> 500 lts
MOC	Stainless steel

**Key Features of the plant**

- Automatic Membrane Auto flushing system
- Plant Automatic on/off control system
- Digital TDS and flow display
- SS 304 skid
- Complete Auto logic panel with GSM

**RO Plant operating data**

Based on the raw water characteristics and desired output, the operating parameter of the 250 LPH RO plant shall be as given below:

Raw water flow	0.75 m <sup>3</sup> /hr
Product water flow	0.25 m <sup>3</sup> /hr
Reject water flow	0.5 m <sup>3</sup> /hr
% of recovery	30-35 % approximately



**1. Technical specifications of 1000 LPH RO plant with Membrane Auto flushing and auto/off control system**

**Raw Water Pump**

Capacity	<b>One</b> 3 m <sup>3</sup> /hr
Type	Monoblock centrifugal pump
MOC	CI
Drive	1.0 HP
Pressure	3 kg/cm <sup>2</sup>
Make	CRI/equivalent

**Pressure sand Filter**

Size	<b>One</b> 13" Dia. x 54"0 mm HOS
MOC	FRP
Multiport valve	25 NB
UPVC pipeline	25 NB
Media	Pebbles, Silex , Fine sand
Make	Pentair/ Aventura/Equivalent

**Activated Carbon Filter**

Size	<b>One</b> 13" Dia. x 54"0 mm HOS
MOC	FRP
Multiport valve	25 NB
UPVC pipeline	25 NB
Media	activated carbon
Make	Pentair/ Equivalent

**Anti scalant dosing**

Flow rate	<b>One</b> 0 – 4 lph
Pump type	Diaphragm type
Operating pressure	4 kg/cm <sup>2</sup>
Volume and MOC of dosing tank	50 liters, HDPE
Make	Miltonroy-Asia lmi

**Micron cartridge filter**

Size	<b>Two</b> 2.5"x 20" length
MOC: Housing/filter	PVC / PP
Type of filter	Spun wound PP 10 μ

**High-pressure pump**

Capacity	<b>One</b> 2.5 m <sup>3</sup> /hr
Pressure	9-12 kg/cm <sup>2</sup>
Type	Multistage vertical centrifugal
Make	CRI

**RO system**

Size. of pressure tubes	<b>One</b> 8" x 40"
No. of pressure tubes	One
MOC of pressure tubes	FRP, 16 kg/cm <sup>2</sup>
Size of membranes	8" x 40"
No. of membranes	One
Type & make	Spiral wound; <b>GE</b> / Eq.

Low pressure Pipe line and fittings	UPVC,
High pressure Pipe line and fittings	CPVC
RO skid	304 Stainless Steel

**UV sterilizer**

Capacity	1000 m <sup>3</sup> /hr
Make	Alfa

**One**

**Raw water tank**

Capacity	2000 Its
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MOC

HDPE

**Pure water tank**

Capacity	2000 Its
MOC	Stainless steel

**Electrical and Instrumentation**

Panel board-LED display, TDS meters, auto on /off.	<b>Qty</b> One
Pressure gauges	Two
Rotameters- UKL	Two
Flow sensors- FLOWTEC	One
SV- U flow	One
Level sensor-	One
LPS and HPS- Danfos	TWO

**2. RO Plant operating data**

Based on the raw water characteristics and desired output, the operating parameter of the 1000 LPH RO plant shall be as given below:

Raw water flow	3.00 m <sup>3</sup> /hr
Product water flow	1.00 m <sup>3</sup> /hr
Reject water flow	2.00 m <sup>3</sup> /hr
% of recovery	30-35 %

**Key Features of the plant**

- Automatic Membrane Auto flushing system
- Plant Automatic on/off control system
- Digital TDS and flow display
- SS 304 skid
- Complete Auto logic panel with GSM